

## (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
28 October 2004 (28.10.2004)

PCT

(10) International Publication Number  
**WO 2004/092806 A2**

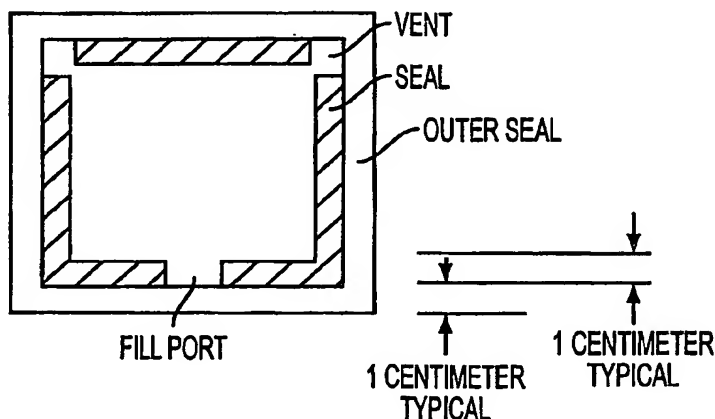
- (51) International Patent Classification<sup>7</sup>: **G02F**
- (21) International Application Number:  
PCT/US2004/010979
- (22) International Filing Date: 9 April 2004 (09.04.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:  
60/461.141 9 April 2003 (09.04.2003) US
- (71) Applicant and  
(72) Inventor: **CHAHROUDI, Day** [US/US]; 41 Juniper Hill Loop, Cedar Crest, NM 87008 (US).
- (74) Agents: **AKSMAN, Stanislaus, A. et al.**; Intellectual Property Department, Hunton & Williams LLP, 1900 K Street, N. W. Suite 1200, WA, DC 20006-1109 (US).

(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

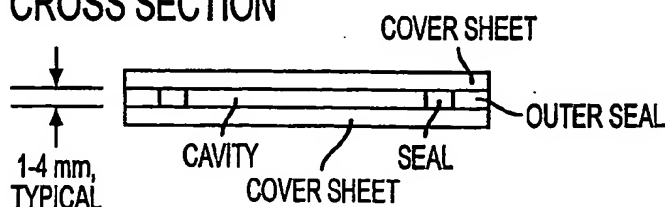
[Continued on next page]

(54) Title: PREPARATION OF LIGHT VALVES



(57) Abstract: Light valves which are controlled by temperature are made by rapidly injecting between two closely spaced sheets, of e.g. glass, a low viscosity monomer + solvent solution, and then rapidly polymerizing the monomer to form a solid layer, which is transparent below a specified temperature, and opaque above that temperature. The low viscosity of the monomer solution and its rapid polymerization makes mass production economically practical. Production machinery for these light valves may be adapted from existing machinery that has been made for manufacturing sealed, double pane windows.

## CROSS SECTION





**Published:**

— without international search report and to be republished  
upon receipt of that report

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*